

PATENT COOPERATION TREATY

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C.20231
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 23 October 2000 (23.10.00)	Applicant's or agent's file reference 1212 WO
International application No. PCT/US00/04853	Priority date (day/month/year) 02 March 1999 (02.03.99)
International filing date (day/month/year) 24 February 2000 (24.02.00)	
Applicant BECK, Ronald	

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

21 September 2000 (21.09.00)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Zakaria EL KHODARY Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

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REC'D 23 DEC 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1212 WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/04853	International filing date (day/month/year) 24 FEBRUARY 2000	Priority date (day/month/year) 02 MARCH 1999
International Patent Classification (IPC) or national classification and IPC IPC(7): G21F 5/00 and US Cl.: 250/496.1, 515.1		
Applicant MALLINCKRODT INC.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

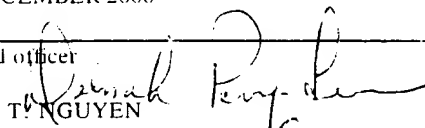
2. This REPORT consists of a total of 3 sheets.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 21 SEPTEMBER 2000	Date of completion of this report 09 DECEMBER 2000
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer  KIET T. NGUYEN
Facsimile No. (703) 305-3230	Telephone No. (703) 308-4855

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04853

I. Basis of the report1. With regard to the **elements** of the international application:*

the international application as originally filed



the description:

pages 1-16

pages NONE

pages NONE

, as originally filed
, filed with the demand
, filed with the letter of

the claims:

pages 17-20

pages NONE

pages NONE

pages NONE

, as originally filed
, as amended (together with any statement) under Article 19
, filed with the demand
, filed with the letter of

the drawings:

pages 1-6

pages NONE

pages NONE

, as originally filed
, filed with the demand
, filed with the letter of

the sequence listing part of the description:

pages NONE

pages NONE

pages NONE

, as originally filed
, filed with the demand
, filed with the letter of2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:



the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).



the language of publication of the international application (under Rule 48.3(b)).



the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in printed form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

the description, pages NONE



the claims, Nos. NONE



the drawings, sheets/fig NONE

5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04853

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. statement

Novelty (N)	Claims	<u>1-20</u>	YES
	Claims	<u>NONE</u>	NO
Inventive Step (IS)	Claims	<u>1-20</u>	YES
	Claims	<u>NONE</u>	NO
Industrial Applicability (IA)	Claims	<u>1-20</u>	YES
	Claims	<u>NONE</u>	NO

2. citations and explanations (Rule 70.7)

Claims 1-20 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a holder and/or method for shielding radioactive substances, which includes means for shielding a second container which contains a first container as recited in claims 1 and 15.

----- NEW CITATIONS -----
NONE

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1212 WO	FOR FURTHER ACTION		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US 00/ 04853	International filing date (day/month/year) 24/02/2000	(Earliest) Priority Date (day/month/year) 02/03/1999	
Applicant MALLINCKRODT INC. et al.			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1-2

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/04853

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G21F5/015

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 081 688 A (FRIES BERNARD A) 28 March 1978 (1978-03-28) the whole document	1-4, 15, 16, 18
A	---	8, 13
Y	GB 2 020 633 A (BYK MALLINCKRODT CIL BV) 21 November 1979 (1979-11-21) the whole document	1-4, 15, 16, 18
A	---	
A	US 3 673 411 A (GLASSER HERMAN) 27 June 1972 (1972-06-27) claims 1,6; figures 1-3	1, 4, 15, 16, 18
A	---	
A	US 4 084 097 A (CZAPLINSKI THOMAS V ET AL) 11 April 1978 (1978-04-11) claims 1,2,5,9-11,13-15,19,20; figures 1-7	1-4, 8, 9, 12, 13, 15, 16, 18

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

28 June 2000

Date of mailing of the international search report

05/07/2000

Name and mailing address of the ISA

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Tel. (+31-70) 340-2040, Tx. 31 651 epo.nl,
Fax: (+31-70) 340-3016

Authorized officer

Deroubaix, P

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/04853

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<div>✓</div> US 3 993 063 A (LARRABEE EDWARD W) 23 November 1976 (1976-11-23) the whole document -----	1, 5-7, 10, 12, 14-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/04853

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4081688	A	28-03-1978	NONE	
GB 2020633	A	21-11-1979	NL 7805066 A	13-11-1979
			AT 372603 B	25-10-1983
			AT 351979 A	15-03-1983
			AU 527553 B	10-03-1983
			AU 4685579 A	15-11-1979
			BE 876118 A	03-09-1979
			CA 1118373 A	16-02-1982
			CH 637347 A	29-07-1983
			DE 2918556 A	15-11-1979
			DK 189779 A, B,	12-11-1979
			FR 2425392 A	07-12-1979
			IT 1118494 B	03-03-1986
			JP 1728134 C	19-01-1993
			JP 4004231 B	27-01-1992
			JP 54161486 A	21-12-1979
			SE 7904029 A	12-11-1979
			US 4278167 A	14-07-1981
			ZA 7902193 A	28-05-1980
US 3673411	A	27-06-1972	NONE	
US 4084097	A	11-04-1978	NONE	
US 3993063	A	23-11-1976	AU 1495676 A	22-12-1977
			BE 842989 A	15-12-1976
			CA 1061018 A	21-08-1979
			DE 2626811 A	23-12-1976
			DK 268476 A	17-12-1976
			FR 2315149 A	14-01-1977
			JP 52038793 A	25-03-1977
			NL 7606469 A	20-12-1976
			SE 7606588 A	17-12-1976
			US 4092546 A	30-05-1978